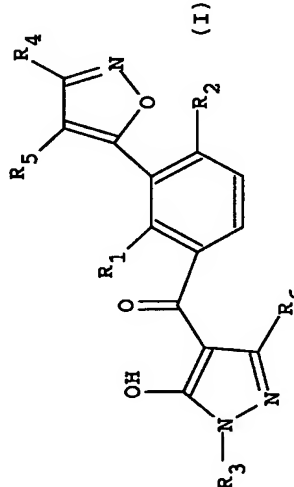


= WO 97/4246

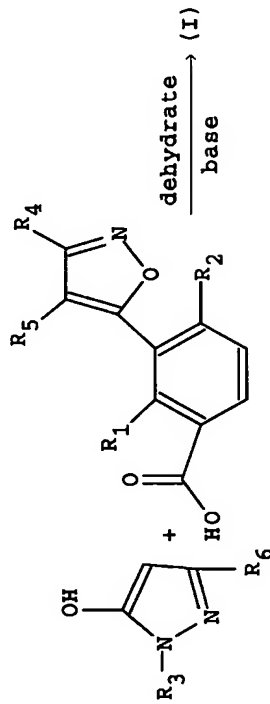
3a

98-041691/04 C02		NIPS 96.04.26	
NIPPON SODA CO		*WO 9741116-A1	
96.12.26 96JP-356866(+96JP-131170) (97.11.06) C07D 413/10, A01N 43/56			
New 4-(1,2-isoxazol-5-yl)-benzoylpyrazole derivatives - are herbicides with high safety towards crops e.g. wheat (Jpn)			
C98-013843 N(AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN) R(AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG)			
Addnl. Data:			
ADACHI H, TANAKA K, YAMAGUCHI M, MIYAHARA O, KOGUCHI M, KAWANA T, TAKAHASHI A, YAMADA S			
97.02.10 97WO-JP00340, 96.11.13 96JP-317153, 96.11.13 96JP-317154			
4-(1,2-Isioxazol-5-yl)-benzoylpyrazole derivatives of formula (I) and their salts are new.			
		C(7-E1, 14-V2B) .2	
			
		R ₁ = 1-6C alkoxy or 1-6C haloalkoxy; R ₂ = halo, 1-6C haloalkyl, 1-6C alkylthio, 1-6C alkylsulphinyl or 1-6C alkylsulphonyl; R ₃ = H or 1-6C alkyl; R ₄ -R ₆ = H, 1-6C alkyl or 1-6C haloalkyl.	
		<u>USE</u> (I) are herbicides.	
		WO 9741116-A+	

ADVANTAGE

(1) are selective with high safety towards crops such as wheat and corn.

PREPARATION



EXAMPLE

2-Methoxy-4-methanesulphonyl-3-(3-methyl-1,2-isoxazol-5-yl)benzoyl chloride (0.82g) in CH₂Cl₂ (3ml) was added dropwise to 1-ethyl-5-hydroxy-pyrazole (0.41g) and NEt₃ (0.56g) in CH₂Cl₂ (10ml) and the mixture was stirred for 1 hour at room temperature. Work-up including silica gel chromatography gave 20 mg 1-ethyl-5-hydroxy-4-

{2-methoxy-3-(3-methyl-1,2-isoxazol-5-yl)-4-methanesulphonyl-benzoyl}-pyrazole, m.pt. 194-196 °C.

HERBICIDAL DATA

(1: R₁ = OMe; R₂ = SO₂Me; R₃, R₄=Me; R₅, R₆ = H) at 63g/ha gave 100% control of *Echinochloa crus galli* and *Xanthium strumarium* with no phytotoxicity towards wheat (CBB) (40pp1839DwgNo.0/0)

SR:AU9336481 AU9646655 AU9988130 EP282944 EP629623 JP2173 JP5515530 US4885022 US5468722 WO9318031 WO9626206

WO 9741116-A